

# ANT-OMNI-2459-04 - Antenna

1284780

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Multiband omnidirectional antenna for freely mobile applications, compact design, frequency band: 2.4 GHz / 5 GHz / 6 GHz, gain: 2.0 dBi / 2.5 dBi / 3.0 dBi, degree of protection: IP68/IP69K, shock- and vibration-resistant, connection: N (male)

## Your advantages

- Compact design
- Ideally suited for freely mobile applications with 2.4 GHz, 5 GHz, or 6 GHz
- Universal use with the wide frequency range
- Shock- and vibration-resistant

## Commercial data

Item number	1284780
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN23
Product key	DNN2Z1
GTIN	4063151490621
Weight per piece (including packing)	49.6 g
Weight per piece (excluding packing)	49.5 g
Customs tariff number	85177100
Country of origin	CN

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## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### Product properties

Product type	Antenna
Radiation characteristics	Omnidirectional
Gain	1.5 dBi (1.7 GHz ... 2.0 GHz)
	2 dBi (2.0 GHz ... 2.7 GHz)
	1.5 dBi (2.7 GHz ... 4.2 GHz)
	2.5 dBi (4.9 GHz ... 5.9 GHz)
	3 dBi (5.9 GHz ... 7.1 GHz)
Polarization	Linear vertical

### Electrical properties

Frequency band	2.4 GHz
	5 GHz
	6 GHz
Frequency range	1.7 GHz ... 7.1 GHz
Impedance	50 $\Omega$
Maximum capacity	120.00 W
Voltage standing wave ratio VSWR in a 50 $\Omega$ system	$\leq 2.00$

### Connection data

#### Connection technology

Connection method	N (male)
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### Dimensions

Length	55 mm
Diameter	22 mm

### Material specifications

Color	black (RAL 9005)
Material	ASA, Acrylic ester styrene-acrylonitrile
Flammability rating according to UL 94	HB

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP68/IP69K
Ambient temperature (operation)	-40 °C ... 85 °C

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Ambient temperature (storage/transport)	-40 °C ... 85 °C
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## Approvals

### Electronic devices in rail vehicles

Shock (operation)	In accordance with EN 61373 (category 1, class B)
Vibration (operation)	In accordance with EN 61373 (category 1, class B)

## Standards and regulations

Standards/specifications	EN 45545-2
Note	Fire protection on railway vehicles
Standards/specifications	EN 50155
Note	Railway application

## Mounting

Mounting type	Control cabinet mounting
Assembly note	Accessories required
	Outdoors and indoors

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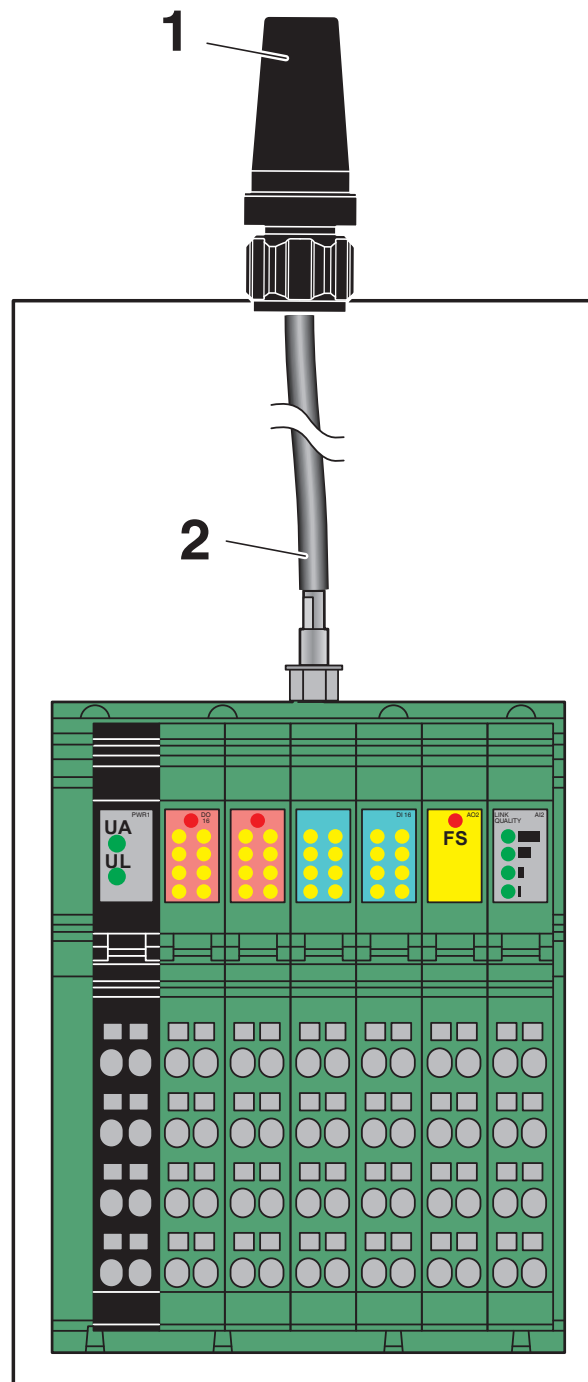
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## Drawings

Schematic diagram



Installation example

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## Classifications

### ECLASS

ECLASS-13.0	19070105
ECLASS-15.0	19070105

### ETIM

ETIM 10.0	EC001698
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### UNSPSC

UNSPSC 21.0	43223100
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	2.891 kg CO2e
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